



**Economic and Social
Council**

Distr.

GENERAL

TRANS/WP.29/837
23 January 2002

ENGLISH
Original: ENGLISH
and
FRENCH

ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

World Forum for Harmonization of Vehicle Regulations (WP.29)

DRAFT SUPPLEMENT 2 TO REGULATION No. 107

(Double-deck large passenger vehicles)

Note: The text reproduced below was adopted by the Administrative Committee (AC.1) of the amended 1958 Agreement at its nineteenth session, following the recommendation by WP.29 at its one-hundred-and-twenty-fifth session. It is based on documents TRANS/WP.29/2000/23/Rev.1 and TRANS/WP.29/2001/60, not amended (TRANS/WP.29/815, paras. 144 and 149).

Paragraph 1.2., amend to read:

- A1.2. Technical provisions for the carriage of passengers with reduced mobility are outside of the scope of this Regulation. Until harmonized provisions for accessibility are finalized and included in an annex to this Regulation, Contracting Parties may apply additional requirements to ensure access to vehicles and the safety of such passengers.®

Insert a new paragraph 2.19.1., to read:

- A2.19.1. A Passenger with reduced mobility® means all passengers who have a special difficulty when using public transport, especially elderly and disabled people. Reduced mobility does not necessarily imply any form of medical impairment.®

Paragraph 4.4.1., footnote 1/, amend to read:

A1/ 31 for Bosnia and Herzegovina, 32 for Latvia, 33 (vacant), 34 for Bulgaria, 35-36 (vacant), 37 for Turkey, 38-39 (vacant), 40 for The former Yugoslav Republic of Macedonia, 41 (vacant), 42 for the European Community (Approvals are granted by its Member States using their respective ECE symbol), 43 for Japan, 44 (vacant), 45 for Australia, 46 for Ukraine and 47 for South Africa. Subsequent numbers ®

Paragraph 5.5.2.2., amend to read:

- A5.5.2.2. No part of fuel filler-holes shall be less than 50 cm from any service door or emergency door aperture when the fuel tank is intended to contain petrol, and not less than 25 cm when it is intended to contain diesel fuel; they shall moreover not be in the passenger compartment, nor in the driver's compartment. Fuel-filler-holes shall not be so located that there is a risk of fuel falling on to the engine or exhaust system during filling."

Paragraph 5.6.1.6., amend to read:

- "5.6.1.6. Each rigid section of an articulated vehicle shall be treated as a separate vehicle for the purpose of determining the minimum number of exits. A number of passengers ..."

Paragraphs 5.6.1.9. and 5.6.1.12., replace the reference to paragraph 5.7.5.3. by reference to paragraph 5.7.5.4.

Paragraph 5.6.2.2., amend to read:

"... between the two doors which are furthest apart.

In the case of an articulated vehicle, this requirement shall be fulfilled if two doors of the different sections are separated such, that the distance between the doors is not less than either 25 per cent of the overall length of the vehicle or 40 per cent of the overall length of the combined passenger compartment (all sections).

In either case, if one of these doors forms part of a double door this distance shall be measured between the doors which are furthest apart."

Paragraph 5.6.3.1., amend to read:

A ... the following minimum dimensions (see also annex 3, figure 16).@

Paragraph 5.6.3.1., the table, service door width, remarks, add at the end the following text:

A... The required width shall be ensured in the height of 70 to 160 cm related to the level of the first step (see annex 3, figure 16).@

Insert a new paragraph 5.6.4.9., to read:

"5.6.4.9. The service door in any open position shall not obstruct the use of or required access to any mandatory exit."

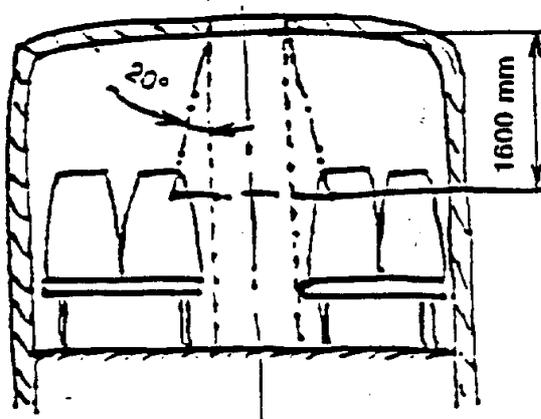
Paragraph 5.7.1.9., amend to read:

A5.7.1.9. The maximum slope of the floor in the access passage shall not exceed 5 per cent.@

Paragraph 5.7.4., amend to read:

A5.7.4. Access to escape hatches

5.7.4.1. If one or more escape hatches are fitted in the roof, at least one escape hatch shall be located such that a four-sided truncated pyramid having a side angle of 20° and a height of 1,600 mm touches part of a seat or equivalent support. The axis of the pyramid shall be vertical and its smaller section shall contact the aperture area of the escape hatch. Supports may be foldable or movable provided they can be locked in their position of use. This position shall be taken for verification.



5.7.4.2. When the structural thickness of the roof is more than 150 mm, the smaller section of the pyramid shall contact the aperture area of the escape hatch at the level of the outside surface of the roof.®

Paragraph 5.7.5.1. the table, amend to read (including dimensions in brackets and explanatory notes 1/ and 2/):

A.....

		Class I		Class II		Class III	
		UD	LD 1/	UD	LD 1/	UD	LD 1/
Diameter of lower cylinder		45	45	35	35	30	30
Height of lower cylinder		90	102 2/ (90)	90	102 2/(90)	90	102 2/ (90)
Diameter of upper cylinder		55	55	55	55	45	45
Height of upper cylinder		50	50	50	50	50	50
Overall height	Approval A	168	180 2/(168)	168	180 2/(168)	168	180 2/(168)
	Approval B	172	177 (172)	168	180 (168)	168	180 (168)

1/ Dimensions in brackets apply for the rearmost part of the lower deck only (para. 5.7.5.3.)

2/ For alternative dimensions of the lower deck: see para. 5.7.5.3.2."

Paragraphs 5.7.5.2. to 5.7.5.2.2., amend to read:

A5.7.5.2. On vehicles of Class I, the diameter of the lower cylinder may be reduced from 45 cm to 40 cm in any part of the gangway which is located to the rear of the most forward of the following two planes:

5.7.5.2.1. a transverse vertical plane situated 1.5 m forward of the centre line of the rear axle (foremost rear axle in the case of vehicles with more than one rear axle);

5.7.5.2.2. a transverse vertical plane situated at the rear edge of the rearmost service door in between the axles.®

Insert a new paragraph 5.7.5.2.3., to read:

"5.7.5.2.3 or the purpose of the application of paragraphs 5.7.5.2.1. and 5.7.5.2.2. above, each rigid section of an articulated vehicle shall be considered separately.®

Insert new paragraphs 5.7.5.3. to 5.7.5.3.2., to read:

- "5.7.5.3. The overall height of the gauging device may be reduced:
- 5.7.5.3.1. from 180 cm to 168 cm (approval A) or from 177 cm to 172 cm (approval B) in any part of the gangway of the lower deck to the rear of a transverse vertical plane situated 1.5 m forward to the centre line of the rear axle (foremost rear axle in the case of vehicles with more than one rear axle); and
- 5.7.5.3.2. from 180 cm to 177 cm by reducing the height of the lower cylinder by 3 cm in case of a service door which is situated forward of the front axle in any part of the gangway situated between two transverse vertical planes situated 80 cm forwards and behind the centre line of the front axle.@"

Paragraphs 5.7.5.3. to 5.7.5.7. (former), renumber as paragraphs 5.7.5.4. to 5.7.5.8.

Paragraph 5.7.7. to 5.7.7.2., amend to read:

A5.7.7. Slope of the gangway

The slope of the gangway shall not exceed:

- 5.7.7..1. In the longitudinal direction:
- 5.7.7.1.1. 8 per cent in the case of a vehicle of Class I or Class II, or
- 5.7.7.1.2. 12.5 per cent in the case of a vehicle of Class III.
- 5.7.7.2. In the transversal direction 5 per cent for all classes.@"

Insert a new paragraph 5.7.8.8., to read:

- A5.7.8.8. The maximum slope of the step in any direction shall not exceed 5 per cent.@"

Paragraph 5.7.9., amend to read:

A5.7.9. Passenger seats (including folding seats) and space for seated passengers@

Paragraph 5.9.1., delete the second sentence reading AThese axes shall intersect travel of the vehicle.@"

Paragraph 5.12.2.3., amend to read:

"..... the floor at that position. Exception may be given in the middle of large platforms, but the sum of these exceptions shall not exceed 20 per cent of the total standing area."

Annex 3, the table under figure 3, including the footnote, amend to read:

	B (cm)	C (cm)	D (cm)	E (cm) <u>1/</u> <u>2/</u>		F (cm) <u>1/</u> <u>2/</u>
				Approval A	Approval B	
Class I	55	45	50	180 (168)	177 (172)	102 (90)
Class II	55	35	50	180 (168)		102 (90)
Class III	45	30 (22 in the case of laterally movable seats))	50	180 (168)		102 (90)

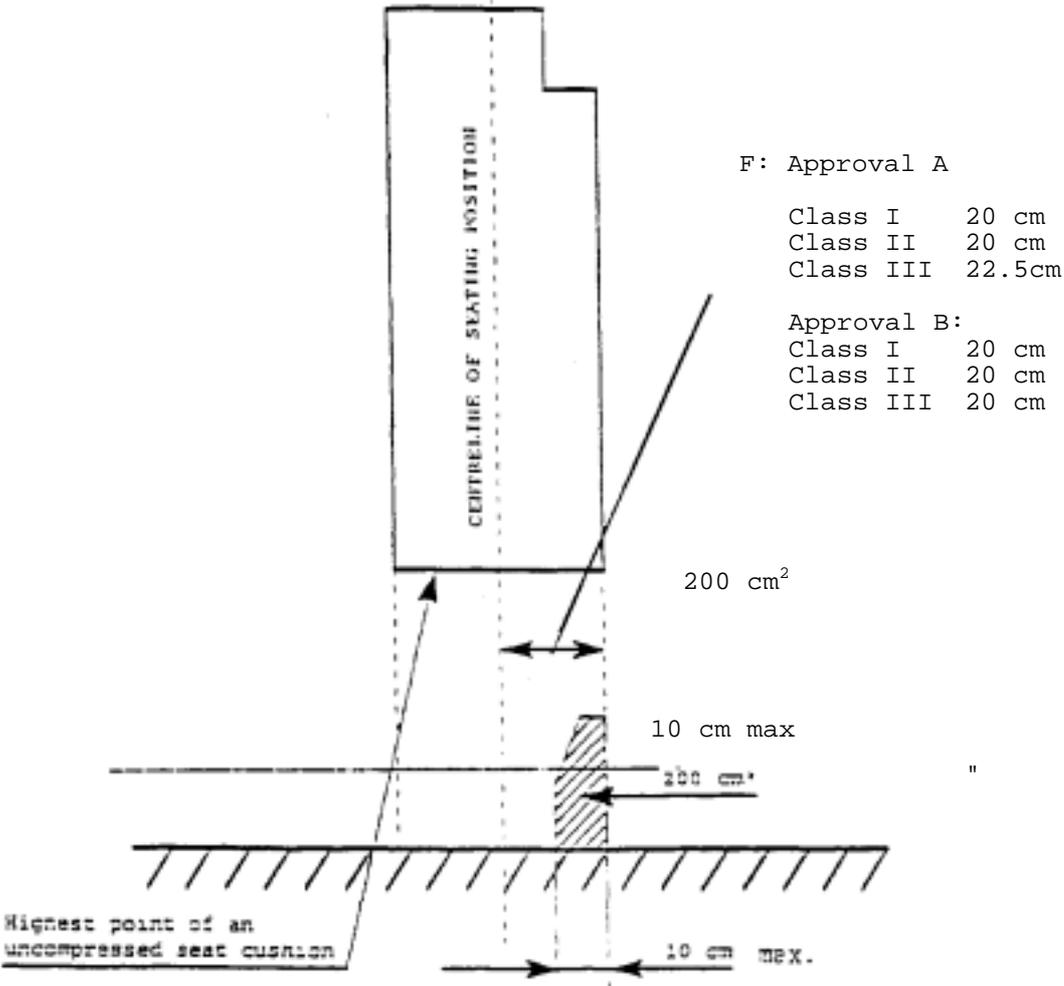
- 1/ Dimensions in brackets apply for upper deck and/or the rearmost part of the lower deck (para. 5.7.5.3.) only.
2/ For alternative dimensions of the lower deck: see para. 5.7.5.3.2.*

Annex 3, figure 11, replace by the following figure:

A

Figure 11

PERMITTED INTRUSION IN LOWER PART OF PASSENGER SPACE
(See paragraph 5.7.9.6.2.3.)



Annex 3, insert a new figure 16, to read:

"Figure 16

SERVICE DOOR DIMENSIONS
(see paragraph 5.6.3.1.)

